

**TABLE 1. VISCOSITY (Pa.sec) AT LOW STRESS/LOW SHEAR RATE**

Sample number	Solid composition	Particle size (mesh/ microns)	Viscosity at 180°C	Viscosity at 200°C
<b>A. NEAT PP</b>				
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<b>B. AMORPHOUS SOLIDS</b>				
A1	Natural Al-Si	800	3670	1774
A2	Natural Al-Si	800	2775	1438
A3	Opal	800	3393	1842
A4	Synthetic Al-Si	800	3675	1895
A5	Carbon	1200	3210	1657
<b>C. AMORPHOUS/CRYSTALLINE</b>				
A1	Natural Al-Si 90%/10%	325	2685	1433
A1	Natural Al-Si 50%/50%	325	2662	1391
A1	Natural Al-Si 10%/90%	325	3336	1677
<b>D. PARTICLE SIZE</b>				
A1	Natural Al-Si	270	3041	1620
A1	Natural Al-Si	325	2685	1433
A1	Natural Al-Si	800	3460	1827
A1	Natural Al-Si	30-45	2685	--
A1	Natural Al-Si	15-30	2828	2051
A1	Natural Al-Si	9-15	2346	1386
A1	Natural Al-Si	5-9	2391	1171
A1	Natural Al-Si	2-7	2948	1358
A1	Natural Al-Si	<4	2984	1367
<b>E. CONCENTRATION (WT PERCENT)</b>				
A1	Natural Al-Si (0.4%)	800	2671	1505
A1	Natural Al-Si (0.75%)	800	3670	1774
A1	Natural Al-Si (0.75%)	325	2685	1433
A1	Natural Al-Si (1.5%)	325	2710	1565
<b>F. CRYSTALLINE COMPOSITION</b>				
C1	Calcite (carbonate)	800	3421	1769
C2	Apatite (phosphate)	800	3443	1893
C3	Bentonite (clay)	800	3861	2117
C4	Talc (Mg silicate)	800	3423	1883
C5	Copper	1200	--	--
C6	Lead oxide	1200	--	--
C7	Quartz	800	3122	1662
<b>G. MILLING METHOD</b>				
A2A	Natural Al-Si	800	2775	1438
A2B	Natural Al-Si	800	3337	1729
A1A	Natural Al-Si	325	2949	1497
A1C	Natural Al-Si	325	2685	1433